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Published on SBIR.gov (<https://www.sbir.gov>)

[1. DHP15B-001: Conversion to Universal Plasma](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Demand for plasma-based therapies continues to rise. In the US alone, there were ~29 million donations of plasma in 2013¹. Plasma-based therapies are also in high demand in the military. Warfighters with combat casualties often require massive plasma transfusions for trauma, shock, burn injury, and emergency surgery. Today, only Type AB blood donors, who account for only 4% of the overall donor po ...

STTR Defense Health Program Department of Defense

[2. DHP15B-002: Laser and Lightwave Therapies for Wound Healing Application](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Since 8 December 2007, the war in the Middle East has seen over 30,000 soldiers injured in combat with the majority of these injuries occurring the last few years [1]. Despite the type of the injury, the majority of the wounded have suffered some degree of soft tissue injury which needs to be addressed. Since these soldiers endure harsh conditions and their wounds are much more likely to become in ...

STTR Defense Health Program Department of Defense

[3. DLA152-001: Advanced Manufacturing Technologies](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

DLA seeks drastically lower unit costs of discrete-parts support through manufacturing revolutions that also have applicability to low and high volume production from commercial sales. This will result in an improvement in the affordability of these innovations to DLA and its customers and the development of cost effective methods to sustain existing defense systems while potentially impacting the ...

SBIR Defense Logistics Agency Department of Defense

[4. DLA152-002: Medical 3D Printing](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

DLA seeks to integrate 3D printing into the Medical supply chain. Medical 3D printing is a disruptive, game-changing technology that will significantly alter medical supply chains in the future. Integrating medical 3D printing will transform customer experience because the supplies will be customizable and available on-demand. With medical 3D printing, the DLA Medical Supply Chain can offer new pr ...

SBIR Defense Logistics Agency Department of Defense

[5. DLA152-003: Ceramic Additive Manufacturing for Metal Casting](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

DLA seeks drastically lower unit costs and availability of cast parts support through manufacturing revolutions that also have applicability to low or high volume production from commercial sales. This will result in an improvement in the affordability of these innovations to DLA and its customers and the development of cost effective methods to sustain existing defense systems while a potential i ...

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6. [T1.01: Affordable Nano/Micro Launch Propulsion Stages](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Lead Center: MSFC Participating Center(s): LaRC, KSC, GRCA As small satellites have become more capable of performing valuable missions for both government and commercial customers, there has been significant growth in both the quantity and quality of Nano and Micro Satellite missions. Currently these satellites can only be launched affordably as secondary payloads; but the number of these missions has o ...

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7. [T1: Launch Propulsion Systems](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Launch Propulsion Systems reflects a staged development of critical technologies that include both "pull" technologies that are driven by known short- or long-term agency mission milestones, as well as "push" technologies that generate new performance or mission capabilities over the next 20 to 25 years. While solid and liquid propulsion systems are reaching the theoretical limits of efficienc ...

STTR National Aeronautics and Space Administration

8. [T11.01: Information Technologies for Intelligent and Adaptive Space Robotics](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Lead Center: ARC Participating Center(s): JSC, JPL The objective of this subtopic is to develop information technologies that enable robots to better support space exploration. Improving robot information technology (algorithms and software) is critical to improving the capability, flexibility, and performance of future missions. In particular, the NASA "Robotics, Tele-Robotics, and Autonomous Systems" ...

STTR National Aeronautics and Space Administration

9. [T11.02: Computational Simulation and Engineering](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Lead Center: JPL Computational Optimization Proposals are solicited for developing numerical

methods and tools that enable robust continuous and discrete optimization as well as uncertainty quantification for physics based computational models. There are many different optimization methods and implementations of some of these methods are available in commercial and open-source form. These methods typ ...

STTR National Aeronautics and Space Administration

10. [T11: Modeling, Simulation, Information Technology and Processing](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Modeling, Simulation, Information Technology and Processing consists of four technology subareas, including computing, modeling, simulation, and information processing. NASA's ability to make engineering breakthroughs and scientific discoveries is limited not only by human, robotic, and remotely sensed observation, but also by the ability to transport data and transform the data into scientific a ...

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